

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---|------------------|---------|------------------|
| L1 | 5 | (image and qualit\$5 and wavefront\$4 and deformat\$5 and focus\$4).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/05 18:48 |
| S1 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:26 |
| S2 | 2457 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:26 |
| S3 | 140842 | (imag\$3 or picture\$2 or video\$3) same (produc\$4 or generat\$4) same qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:55 |
| S4 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:55 |
| S5 | 1044 | S4 and S3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:55 |
| S6 | 4826 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:55 |
| S7 | 45 | S4 and S6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 18:56 |

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| S8 | 5 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 20:23 |
| S9 | 500 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 20:25 |
| S10 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 20:25 |
| S11 | 4 | S10 and S9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 20:25 |
| S12 | 374 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:37 |
| S13 | 1478 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:37 |
| S14 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:38 |
| S15 | 8 | S14 and S13 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:38 |

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| S16 | 2457 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:50 |
| S17 | 1478 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:50 |
| S18 | 69 | S16 and S17 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 21:50 |
| S19 | 753 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 22:41 |
| S20 | 80 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 and wavefront | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/13 22:54 |
| S21 | 2521 | 351/205,208,221,246.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 08:54 |
| S22 | 753 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 08:55 |
| S23 | 20 | S21 and S22 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 08:55 |

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| S24 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 08:55 |
| S25 | 14 | S24 and S22 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 08:55 |
| S26 | 1315 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:04 |
| S27 | 693 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:05 |
| S28 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:05 |
| S29 | 5 | S28 and S27 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:05 |
| S30 | 199 | thomas near engel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:24 |
| S31 | 34 | thomas near engel and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:24 |

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| S32 | 52 | herbert near gross | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:57 |
| S33 | 11 | herbert near gross and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 09:57 |
| S34 | 2 | ("5066119").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:00 |
| S35 | 2 | ("20020057495").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:01 |
| S36 | 4962 | 358/504,509-510,296,302.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:12 |
| S37 | 127 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:13 |
| S38 | 137 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront\$2 and intensit\$3 and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:13 |
| S39 | 0 | S36 and S38 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:13 |

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| S40 | 4902 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:13 |
| S41 | 4 | S40 and S38 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:13 |
| S42 | 289 | 250/201.9.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:29 |
| S43 | 693 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:29 |
| S44 | 24 | S42 and S43 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/09/14 10:29 |
| S45 | 5 | ("4154530" "4566765" "4670639" "4732148" "5256853").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/14 11:01 |
| S46 | 3 | ("5751475" "6011874" "6262818").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/14 11:09 |
| S47 | 3 | ("4518854" "6163381" "6653613").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/09/14 11:11 |
| S48 | 1 | (image and qualit\$3 and illumination and light and focus and intensity and centroid\$2 and wavefront\$2 and Zernike).clm. | US-PGPUB | OR | OFF | 2008/09/14 12:05 |
| S49 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |

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| S50 | 2482 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S51 | 145881 | (imag\$3 or picture\$2 or video\$3) same (produc\$4 or generat\$4) same qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S52 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S53 | 1100 | S52 and S51 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S54 | 4990 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S55 | 51 | S52 and S54 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S56 | 5 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S57 | 540 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |

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| S58 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S59 | 5 | S58 and S57 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S60 | 405 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S61 | 1557 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S62 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S63 | 9 | S62 and S61 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S64 | 2482 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S65 | 1557 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |

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| S66 | 72 | S64 and S65 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S67 | 812 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S68 | 88 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 and wavefront | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S69 | 2637 | 351/205,208,221,246.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S70 | 812 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S71 | 22 | S69 and S70 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S72 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S73 | 15 | S72 and S70 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |

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| S74 | 1397 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S75 | 739 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S76 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S77 | 6 | S76 and S75 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S78 | 200 | thomas near engel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S79 | 34 | thomas near engel and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S80 | 52 | herbert near gross | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S81 | 11 | herbert near gross and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |

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| S82 | 2 | ("5066119").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S83 | 2 | ("20020057495").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S84 | 5033 | 358/504,509-510,296,302.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S85 | 141 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S86 | 151 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront\$2 and intensit\$3 and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S87 | 0 | S84 and S86 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S88 | 5112 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S89 | 5 | S88 and S86 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |

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| S90 | 298 | 250/201.9.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S91 | 739 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S92 | 28 | S90 and S91 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/16 01:22 |
| S93 | 5 | ("4154530" "4566765" "4670639" "4732148" "5256853").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/01/16 01:22 |
| S94 | 3 | ("5751475" "6011874" "6262818").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/01/16 01:22 |
| S95 | 3 | ("4518854" "6163381" "6653613").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/01/16 01:22 |
| S96 | 1 | (image and qualit\$3 and illumination and light and focus and intensity and centroid\$2 and wavefront\$2 and Zernike).clm. | US-PGPUB | OR | OFF | 2009/01/16 01:22 |
| S97 | 1 | ("6158694").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 10:59 |
| S98 | 2162 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and qualit\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 11:23 |
| S99 | 1915 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and qualit\$4 and image\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 11:24 |
| S100 | 1332 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and qualit\$4 same image\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 11:24 |
| S101 | 350 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) same qualit\$4 same image\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 11:24 |
| S102 | 56 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) same qualit\$4 same image\$3 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 11:25 |

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| S10 3 | 3 | ("3896304" "4092716" "4326800").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 11:51 |
| S10 4 | 34 | ("3896304").URPN. | USPAT | OR | OFF | 2009/12/12 11:52 |
| S10 5 | 2 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 same image\$3 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 12:09 |
| S10 6 | 2 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 same image\$3 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 12:09 |
| S10 7 | 2 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 12:12 |
| S10 8 | 86 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near4 qualit\$4 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 12:12 |
| S10 9 | 30 | ("20020001088" "3700907" "3912396" "4429992" "4772120" "4993826" "5022753" "5062702" "5062705" "5319445" "5355210" "5424552" "5548396" "5631731" "5635285" "5742381" "5767959" "5796512" "5872625" "5883982" "5959726" "5973773" "6034766" "6084712" "6693704" "6763133" "6813002" "6816247" "6977718" "7142284").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/12 14:19 |
| S11 0 | 0 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near4 qualit\$4 and noise near correction\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 14:50 |

EAST Search History (Prior Art)

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| S11 1 | 4 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near correction\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 14:50 |
| S11 2 | 8 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 14:57 |
| S11 3 | 104189 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7) sam eimage42 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 14:58 |
| S11 4 | 0 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7) same image\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 14:58 |
| S11 5 | 22 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7 or eliminat\$4 or remov\$4) same image\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 14:59 |
| S11 6 | 61 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7 or eliminat\$4 or remov\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/12 15:06 |
| S11 7 | 2 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and noise near correction\$2 same (image\$2 or picture\$2 or frame\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 12:11 |

EAST Search History (Prior Art)

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| S11 8 | 7 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and correction\$2 same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 12:13 |
| S11 9 | 2661 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 12:16 |
| S12 0 | 48 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and (improv\$5 or correct\$5) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 12:17 |
| S12 1 | 61 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 12:18 |
| S12 2 | 16 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and wavefront\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 12:24 |
| S12 3 | 367 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 14:48 |
| S12 4 | 479 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 14:48 |

EAST Search History (Prior Art)

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| S12 5 | 26 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 14:49 |
| S12 6 | 182 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) same (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 14:58 |
| S12 7 | 31 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) same (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) near (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:01 |
| S12 8 | 75 | warden near laurence | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:14 |
| S12 9 | 135 | (image\$2 or picture\$2 or frame\$3) same qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) near (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:14 |
| S13 0 | 5 | S128 and S129 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:15 |
| S13 1 | 202 | thomas near engel | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:16 |

EAST Search History (Prior Art)

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| S13 2 | 1 | S129 and S131 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:16 |
| S13 3 | 52 | herbert near gross | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:16 |
| S13 4 | 1 | S129 and S133 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:17 |
| S13 5 | 43 | stack\$4 and (image\$2 or picture\$2 or frame\$3) same qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) near (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/12/13 15:17 |
| S13 6 | 4 | ("20030214647" "20040260275" "6781681" "6786602").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/12/13 15:38 |
| S13 7 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S13 8 | 2591 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S13 9 | 166789 | (imag\$3 or picture\$2 or video\$3) same (produc\$4 or generat\$4) same qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|------|---|---|----|-----|------------------|
| S14 0 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 1 | 1366 | S140 and S139 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 2 | 5639 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 3 | 66 | S140 and S142 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 4 | 8 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 5 | 664 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 6 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 7 | 6 | S146 and S145 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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| S14 8 | 495 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S14 9 | 1864 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 0 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 1 | 10 | S150 and S149 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 2 | 2591 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 3 | 1864 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 4 | 82 | S152 and S153 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 5 | 988 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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| S15 6 | 96 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 and wavefront | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 7 | 3060 | 351/205,208,221,246.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 8 | 988 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S15 9 | 25 | S157 and S158 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 0 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 1 | 18 | S160 and S158 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 2 | 1682 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 3 | 903 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|------|---------------------------------------|---|----|-----|------------------|
| S16 4 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 5 | 7 | S164 and S163 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 6 | 205 | thomas near engel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 7 | 36 | thomas near engel and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 8 | 52 | herbert near gross | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S16 9 | 11 | herbert near gross and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 0 | 2 | ("5066119").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 1 | 2 | ("20020057495").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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| S17 2 | 5326 | 358/504,509-510,296,302.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 3 | 161 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 4 | 171 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront\$2 and intensit\$3 and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 5 | 0 | S172 and S174 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 6 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 7 | 7 | S176 and S174 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 8 | 331 | 250/201.9.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S17 9 | 903 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|--------|--|---|----|-----|------------------|
| S18 0 | 32 | S178 and S179 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S18 1 | 5 | ("4154530" "4566765" "4670639" "4732148" "5256853").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S18 2 | 3 | ("5751475" "6011874" "6262818").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S18 3 | 3 | ("4518854" "6163381" "6653613").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S18 4 | 1 | (image and qualit\$3 and illumination and light and focus and intensity and centroid\$2 and wavefront\$2 and Zernike).clm. | US-PGPUB | OR | OFF | 2010/06/17 13:53 |
| S18 5 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S18 6 | 2591 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S18 7 | 166789 | (imag\$3 or picture\$2 or video\$3) same (produc\$4 or generat\$4) same qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S18 8 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S18 9 | 1366 | S188 and S187 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|------|---|---|----|-----|------------------|
| S19 0 | 5639 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 1 | 66 | S188 and S190 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 2 | 8 | (imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 3 | 664 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 4 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 5 | 6 | S194 and S193 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 6 | 495 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 7 | 1864 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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| S19 8 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S19 9 | 10 | S198 and S197 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 0 | 2591 | 356/124-127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 1 | 1864 | zernike and coefficient\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 2 | 82 | S200 and S201 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 3 | 988 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 4 | 96 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 and wavefront | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 5 | 3060 | 351/205,208,221,246.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|------|---|---|----|-----|------------------|
| S20 6 | 988 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 7 | 25 | S205 and S206 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 8 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S20 9 | 18 | S208 and S206 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 0 | 1682 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 1 | 903 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 2 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 3 | 7 | S212 and S211 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|------|--|---|----|-----|------------------|
| S21 4 | 205 | thomas near engel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 5 | 36 | thomas near engel and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 6 | 52 | herbert near gross | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 7 | 11 | herbert near gross and imag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 8 | 2 | ("5066119").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S21 9 | 2 | ("20020057495").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 0 | 5326 | 358/504,509-510,296,302.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 1 | 161 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront and intensity and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|------|---|---|----|-----|------------------|
| S22 2 | 171 | (imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront\$2 and intensit\$3 and centroid\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 3 | 0 | S220 and S222 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 4 | 6124 | 382/254-255,270-271,274,312,325.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 5 | 7 | S224 and S222 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 6 | 331 | 250/201.9.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 7 | 903 | optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 8 | 32 | S226 and S227 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S22 9 | 5 | ("4154530" "4566765" "4670639" "4732148" "5256853").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 0 | 3 | ("5751475" "6011874" "6262818").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 1 | 3 | ("4518854" "6163381" "6653613").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

| | | | | | | |
|----------|------|---|--|----|-----|------------------|
| S23 2 | 1 | (image and quality\$3 and illumination and light and focus and intensity and centroid\$2 and wavefront\$2 and Zernike).clm. | US-PGPUB | OR | OFF | 2010/06/17 13:53 |
| S23 3 | 1 | ("6158694").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 4 | 2307 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and quality\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 5 | 2050 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and quality\$4 and image\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 6 | 1432 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and quality\$4 same image\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 7 | 370 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) same quality\$4 same image\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 8 | 60 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) same quality\$4 same image\$3 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S23 9 | 3 | ("3896304" "4092716" "4326800").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S24 0 | 34 | ("3896304").URPN. | USPAT | OR | OFF | 2010/06/17 13:53 |
| S24 1 | 2 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near quality\$4 same image\$3 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S24 2 | 2 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near quality\$4 same image\$3 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S24 3 | 2 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near quality\$4 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

| | | | | | | |
|----------|--------|---|--|----|-----|------------------|
| S24 4 | 95 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near4 qualit\$4 and (image\$2 near4 (stack\$4 or plural\$4 or multipl\$4)) and noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S24 5 | 30 | ("20020001088" "3700907" "3912396" "4429992" "4772120" "4993826" "5022753" "5062702" "5062705" "5319445" "5355210" "5424552" "5548396" "5631731" "5635285" "5742381" "5767959" "5796512" "5872625" "5883982" "5959726" "5973773" "6034766" "6084712" "6693704" "6763133" "6813002" "6816247" "6977718" "7142284").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |
| S24 6 | 0 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near4 qualit\$4 and noise near correction\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S24 7 | 4 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near correction\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S24 8 | 9 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S24 9 | 106377 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7) sam eimage42 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 0 | 0 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7) same image\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

| | | | | | | |
|----------|------|---|--|----|-----|------------------|
| S25 1 | 27 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7 or eliminat\$4 or remov\$4) same image\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 2 | 70 | wavefront\$2 near (error\$3 or aberration\$3 or deformation\$4) and noise near (correction\$2 or cancel\$7 or eliminat\$4 or remov\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 3 | 2 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and noise near correction\$2 same (image\$2 or picture\$2 or frame\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 4 | 7 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and correction\$2 same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 5 | 2820 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 6 | 50 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and (improv\$5 or correct\$5) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 7 | 65 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

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|----------|-----|---|--|----|-----|------------------|
| S25 8 | 17 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (system\$2 or apparatus\$2 or machine\$3 or microscop\$4 or telescop\$4) near qualit\$4 and wavefront\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S25 9 | 403 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 0 | 525 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 1 | 29 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) near (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 2 | 197 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) same (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) same (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 3 | 34 | (evaluat\$4 or determin\$5 or asses\$4 or judg\$4) same (image\$2 or picture\$2 or frame\$3) near qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) near (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 4 | 80 | warden near laurence | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |

EAST Search History (Prior Art)

| | | | | | | |
|----------|-----|--|--|----|-----|------------------|
| S26 5 | 148 | (image\$2 or picture\$2 or frame\$3) same qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) near (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 6 | 6 | S264 and S265 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 7 | 205 | thomas near engel | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 8 | 1 | S265 and S267 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S26 9 | 52 | herbert near gross | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S27 0 | 1 | S265 and S269 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S27 1 | 52 | stack\$4 and (image\$2 or picture\$2 or frame\$3) same qualit\$4 and (improv\$5 or correct\$5 or remov\$4 or eliminat\$4 or adjust\$4) near (image\$2 or picture\$2 or frame\$3) same nois\$3 and wavefront\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/17 13:53 |
| S27 2 | 4 | ("20030214647" "20040260275" "6781681" "6786602").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/17 13:53 |

EAST Search History (I nterference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-----------------------|------------------|---------|------------------|
| L2 | 5 | (image and quality\$5 and wavefront\$4 and deformat\$5 and focus\$4).clm. | US-PGPUB; USPAT; UPAD | OR | OFF | 2010/07/05 18:49 |